

Fluor Fernald, Inc.  
P.O. Box 538704  
Cincinnati, OH 45253-8704

# **FLUOR**

February 22, 2006

Fernald Closure Project  
Letter No. C:PROJ:2006-0008

Mr. Dick Bartz  
Chief, Division of Water  
Ohio Department of Natural Resources  
Water Resources Section  
2045 Morse Road  
Columbus, OH 43229-6605

Dear Mr. Bartz:

**CONTRACT DE-AC24-01OH20115, OHIO DEPARTMENT OF NATURAL RESOURCES  
(ODNR) ANNUAL WATER WITHDRAWAL REPORT**

The enclosed copy of ODNR Form 7805 comprises the 2005 Fernald Closure Project Annual Water Withdrawal Report.

Water withdrawn from Production Well 2 (19.95 million gallons), Construction Well 1 (25.82 million gallons), Construction Well 2 (4.03 million gallons), and Construction Well 3 (1.56 million gallons) was applied to roadways and construction areas for the purpose of dust suppression. For purposes of this report, discharges from these wells were not included in the return flow calculation. Discharges from the other extraction wells were included in the return flow calculation because the water was discharged to the Great Miami River.

A few minor changes to the registration form are required. The facility name should be USDOE Fernald Closure Project. Wells EW-17a and EW-21 should be added to the list of wells. Four wells (EW-28, PW-1, PW-2, and PW-3) should be removed from the list of wells because they have been plugged and abandoned. Replacement wells for EW-17 and EW-21 have been installed. The registration forms (Attachment A) and the appropriate well completion logs (Attachment B) for these wells are included.

Mr. Dick Bartz, Chief  
Letter No. C:PROJ:2006-0008  
Page 2

If you have any questions regarding this report, please contact Bill Hertel at (513) 648-3894.

Sincerely,



Jyh-Dong Chiou, Project Manager  
Environmental Closure Project

JDC:KAB:dsm

Enclosure

c:     With Enclosure  
      Ken Broberg, MS 12  
      Jyh-Dong Chiou, MS 88  
      William Hertel, MS 12  
      Frank Johnston, MS 12  
      Johnny Reising, DOE-OH/FCP, MS 2  
      Eric Woods, MS 90  
      Administrative Record, MS 6  
      DOE Records Center  
      File Record Subject - ODNR Annual Water Withdrawal Report  
      Letter Log Copy, MS 1  
      Project Number 52400

Without Enclosure  
      Christina Carr, DOE-OH/FCP, MS 2  
      Timothy L. Jones, DOE Contracting Officer, DOE/EMCBC  
      Dennis Sizemore, Fluor Fernald, Inc. Prime Contract, MS 1



STATE OF OHIO  
WATER WITHDRAWAL  
FACILITY REGISTRATION  
ANNUAL REPORT FORM

SEND TO: OHIO DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF WATER  
WATER RESOURCES SECTION  
2045 MORSE ROAD, BLD. B-2  
COLUMBUS, OHIO 43229-6605  
(614) 265-6745

006206

006206

AUTHORITY: Ohio Revised Code Section 1521.16 requires that any owner of a facility, or combination of facilities, with the capacity to withdraw more than 100,000 gallons of water daily, register such facilities and file an annual report with the Ohio Department of Natural Resources, Division of Water.

Water Withdrawal Report for the Year Ending December 31, 2005

According to our records the Contact is listed as:

Please Make Corrections Below

Contact Name: WILLIAM HERTEL

Company Name: FLUOR FERNALD, INC

-2

Address: P.O. BOX 538704

CINCINNATI OH 45253-8704

Phone: 513/648-3894

Please provide your Universal Business ID :

The Owner is listed as:

Please Make Corrections Below  
(Notify us if facility ownership has changed)

Owner Name:

Company Name: U S DEPT OF ENERGY-FERNALD

Address: P.O. BOX 538705

CINCINNATI OH 45253-8705

Phone: 513/648-3894

Facility Name and Withdrawal Mode:

County: HAMILTON

Registration Number: 01573

USDOE FERNALD CLOSURE PROJECT

Facility Name: USDOE FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

Registration Date:

Please note changes in facility status, or naming, in the gray spaces next to the well or intake number(s) below.

| Facility's WELL (Ground Water) Identification |                  |        | Facility's INTAKE (Surface Water) Identification |
|---|------------------|--------|--|
| CW-1  | EW-26            | EW-17a |  |
| CW-2  | EW-27            | EW-21  |  |
| CW-3  | <del>EW-28</del> |        |  |
| EW-13   | EW-30            |        |  |
| EW-14   | EW-31            |        |  |
| EW-15   | EW-32            |        |  |
| EW-15a  | <del>PW-1</del>  |        |  |
| EW-16   | <del>PW-2</del>  |        |  |
| EW-17   | <del>PW-3</del>  |        |  |
| EW-18   | RW-1             |        |  |
| EW-19   | RW-2             |        |  |
| EW-20   | RW-3             |        |  |
| EW-21a  | RW-4             |        |  |
| EW-22   | RW-5             |        |  |
| EW-23   | RW-6             |        |  |
| EW-24   | RW-7             |        |  |
| EW-25   |                  |        |  |



NOTE: This page may be photocopied if additional space is required. Please be sure to sign and date each copy.

### WITHDRAWALS

GROUND WATER (in Units of Millions of Gallons)

Registration Number **01573**

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY  | JUNE | JULY | AUG.  | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR              |
|-------------------|------|------|-------|-------|------|------|------|-------|-------|------|------|------|-----------------------------|
| WELL NO. CW-1     | 0    | 0    | 0     | 0.89  | 1.94 | 0.54 | 0.01 | 8.41  | 8.21  | 1.94 | 1.94 | 1.94 | 25.82                       |
| WELL NO. CW-2     | 0    | 0    | 0     | 0     | 0.51 | 0.23 | 0.86 | 1.99  | 0.44  | 0    | 0    | 0.00 | 4.03                        |
| WELL NO. CW-3     | 0.13 | 0.13 | 0.13  | 0.13  | 0.13 | 0.13 | 0.13 | 0.13  | 0.13  | 0.13 | 0.13 | 0.13 | 1.56                        |
| WELL NO. PW-1     | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0                           |
| WELL NO. PW-2     | 1.26 | 1.71 | 1.16  | 3.13  | 2.69 | 4.01 | 3.38 | 2.61  | 0     | 0    | 0    | 0    | 19.95                       |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| WELL NO.          |      |      |       |       |      |      |      |       |       |      |      |      |                             |
| TOTAL             | 1.39 | 1.84 | 1.29  | 4.15  | 5.27 | 4.91 | 4.38 | 13.14 | 8.78  | 2.07 | 2.07 | 2.07 | GRAND TOTAL<br>51.36        |
| MAXIMUM           | 1.26 | 1.71 | 1.16  | 3.13  | 2.69 | 4.01 | 3.38 | 8.41  | 8.21  | 1.94 | 1.94 | 1.94 |                             |
| MINIMUM           | 0    | 0    | 0     | 0     | 0    | 0    | 0    | 0     | 0     | 0    | 0    | 0    |                             |
| DAYS IN OPERATION | 31   | 28   | 31    | 30    | 31   | 30   | 31   | 31    | 30    | 31   | 30   | 31   | TOTAL OPERATION DAYS<br>365 |

SURFACE WATER (in Units of Millions of Gallons)

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR       |
|-------------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------------|
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| TOTAL             |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL          |
| MAXIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| MINIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| DAYS IN OPERATION |      |      |       |       |     |      |      |      |       |      |      |      | TOTAL OPERATION DAYS |

Are surface water and ground water withdrawal amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported withdrawal amounts determined? (Attach separate sheet, if necessary) **WITHDRAWAL FOR CW-3 WAS ESTIMATED.**

RETURN FLOW (in Units of Millions of Gallons)

| SOURCE | JAN.  | FEB.  | MARCH  | APRIL  | MAY    | JUNE   | JULY   | AUG.   | SEPT.  | OCT.   | NOV.   | DEC.   | TOTAL PER YEAR         |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------|
| FLOW   | 94.77 |       |        |        |        |        |        |        |        |        |        |        |                        |
| FLOW   | 92.78 | 69.04 | 168.14 | 164.08 | 164.11 | 156.14 | 157.76 | 105.81 | 163.86 | 141.08 | 126.28 | 146.42 | 1655.50                |
| TOTAL  | 92.78 | 69.04 | 168.14 | 164.08 | 164.11 | 156.14 | 157.76 | 105.81 | 163.86 | 141.08 | 126.28 | 146.42 | GRAND TOTAL<br>1655.50 |

Are return flow amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported return flow amounts determined? (Attach separate sheet, if necessary)

NOTE: Is the information originally supplied on your registration form still correct? ☒ yes ☐ no (circle one) **CHANGE TO WELL LIST**  
**CHANGE TO FACILITY NAME**  
 If "no," please attach a separate sheet indicating the nature of the change. If needed, a new registration form will be forwarded to you so that you may provide this office with the necessary revisions.

Owner or authorized representative's signature

Date  
2/22/06



NOTE: This page may be photocopied if additional space is required. Please be sure to sign and date each copy.

| GROUND WATER (in Units of Millions of Gallons) |       |       |       |       |       |       |       |       |       |       |       |       | Registration Number         |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|
| WITHDRAWALS                                    |       |       |       |       |       |       |       |       |       |       |       |       | 01573                       |
| SOURCE   | JAN.  | FEB.  | MARCH | APRIL | MAY   | JUNE  | JULY  | AUG.  | SEPT. | OCT.  | NOV.  | DEC.  | TOTAL PER YEAR              |
| WELL NO. RW-1                                  | 13.39 | 4.51  | 12.81 | 9.52  | 8.49  | 8.61  | 5.65  | 3.57  | 8.46  | 7.96  | 0.92  | 6.37  | 90.26                       |
| WELL NO. RW-2                                  | 6.69  | 9.73  | 11.85 | 8.59  | 7.60  | 8.31  | 5.61  | 3.32  | 8.55  | 7.57  | 6.87  | 6.88  | 91.57                       |
| WELL NO. RW-3                                  | 13.55 | 8.73  | 6.56  | 5.48  | 0     | 4.24  | 5.49  | 3.17  | 8.44  | 7.89  | 8.44  | 9.94  | 81.93                       |
| WELL NO. RW-4                                  | 17.69 | 11.27 | 14.74 | 12.49 | 13.02 | 13.00 | 7.54  | 4.80  | 10.22 | 7.96  | 6.24  | 0     | 118.97                      |
| WELL NO. RW-6                                  | 5.27  | 6.37  | 8.63  | 5.49  | 8.08  | 8.30  | 5.53  | 4.06  | 4.26  | 0     | 0     | 0.88  | 56.87                       |
| WELL NO. RW-7                                  | 0     | 0     | 8.72  | 8.95  | 8.40  | 8.33  | 5.52  | 3.96  | 8.48  | 7.92  | 8.12  | 9.66  | 78.06                       |
| WELL NO.                                       |       |       |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.                                       |       |       |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.                                       |       |       |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.                                       |       |       |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.                                       |       |       |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.                                       |       |       |       |       |       |       |       |       |       |       |       |       |                             |
| TOTAL  | 56.59 | 40.61 | 63.31 | 50.52 | 45.59 | 50.79 | 35.34 | 22.88 | 48.41 | 39.30 | 30.59 | 33.73 | GRAND TOTAL<br>517.66       |
| MAXIMUM  | 17.69 | 11.27 | 14.74 | 12.49 | 13.02 | 13.00 | 7.54  | 4.80  | 10.22 | 7.96  | 8.44  | 9.94  |                             |
| MINIMUM  | 0     | 0     | 6.56  | 5.48  | 0     | 4.24  | 5.49  | 3.17  | 4.26  | 0     | 0     | 0     |                             |
| DAYS IN OPERATION                              | 31    | 28    | 31    | 30    | 31    | 30    | 31    | 31    | 30    | 31    | 30    | 31    | TOTAL OPERATION DAYS<br>365 |

## SURFACE WATER (in Units of Millions of Gallons)

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR       |
|-------------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------------|
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| TOTAL             |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL          |
| MAXIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| MINIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| DAYS IN OPERATION |      |      |       |       |     |      |      |      |       |      |      |      | TOTAL OPERATION DAYS |

Are surface water and ground water withdrawal amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported withdrawal amounts determined? (Attach separate sheet, if necessary)

## RETURN FLOW (in Units of Millions of Gallons)

| SOURCE | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR |
|--------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------|
| FLOW   |      |      |       |       |     |      |      |      |       |      |      |      |                |
| FLOW   |      |      |       |       |     |      |      |      |       |      |      |      |                |
| TOTAL  |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL    |

Are return flow amounts based on metered readings? ☐ yes ☐ no (circle one) If "no," how were the reported return flow amounts determined? (Attach separate sheet, if necessary)

NOTE: Is the information originally supplied on your registration form still correct? ☒ yes ☐ no (circle one)

If "no," please attach a separate sheet indicating the nature of the change. If needed, a new registration form will be forwarded to you so that you may provide this office with the necessary revisions.

Owner or authorized representative's signature

Date

2/22/06



NOTE: This page may be photocopied if additional space is required. Please be sure to sign and date each copy.

| WITHDRAWALS                                    |       |      |       |       |       |      |       |      |       |       |       |       | Registration Number <b>01573</b> |
|--|-------|------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|----------------------------------|
| GROUND WATER (in Units of Millions of Gallons) |       |      |       |       |       |      |       |      |       |       |       |       |                                  |
| SOURCE   | JAN.  | FEB. | MARCH | APRIL | MAY   | JUNE | JULY  | AUG. | SEPT. | OCT.  | NOV.  | DEC.  | TOTAL PER YEAR                   |
| WELL NO. <b>EW-15a</b>                         | 4.03  | 1.93 | 3.46  | 6.15  | 8.05  | 6.66 | 5.30  | 0.30 | 7.63  | 7.78  | 8.18  | 9.87  | 69.34                            |
| WELL NO. <b>EW-17a</b>                         | 7.00  | 3.26 | 3.62  | 3.64  | 5.06  | 6.81 | 6.30  | 4.44 | 5.34  | 6.85  | 8.14  | 9.71  | 70.17                            |
| WELL NO. <b>EW-18</b>                          | 1.09  | 0    | 0.56  | 0.07  | 3.33  | 4.04 | 5.16  | 3.37 | 4.25  | 3.87  | 3.68  | 0     | 29.42                            |
| WELL NO. <b>EW-19</b>                          | 1.05  | 0    | 7.28  | 5.19  | 3.95  | 4.59 | 4.56  | 3.16 | 3.97  | 3.82  | 4.15  | 5.05  | 46.77                            |
| WELL NO. <b>EW-20</b>                          | 0.49  | 0.38 | 3.64  | 5.39  | 3.94  | 4.35 | 4.47  | 3.22 | 4.26  | 3.84  | 4.16  | 5.07  | 43.21                            |
| WELL NO. <b>EW-21a</b>                         | 4.27  | 2.04 | 6.57  | 6.07  | 7.21  | 6.47 | 8.04  | 6.24 | 8.35  | 7.23  | 6.65  | 9.33  | 78.47                            |
| WELL NO. <b>EW-22</b>                          | 11.67 | 5.65 | 5.54  | 10.55 | 10.52 | 9.82 | 11.38 | 9.59 | 12.20 | 11.17 | 11.21 | 14.24 | 123.54                           |
| WELL NO. <b>EW-23</b>                          | 1.02  | 0.59 | 8.73  | 7.67  | 7.96  | 6.42 | 7.86  | 5.89 | 6.69  | 5.46  | 4.50  | 5.34  | 68.13                            |
| WELL NO. <b>EW-24</b>                          | 0.57  | 0.25 | 9.35  | 9.04  | 9.73  | 6.23 | 9.36  | 0    | 0     | 0     | 0     | 0     | 44.53                            |
| WELL NO. <b>EW-25</b>                          | 1.55  | 0.80 | 10.67 | 6.74  | 3.91  | 0    | 2.98  | 2.82 | 4.17  | 4.24  | 5.46  | 6.89  | 50.23                            |
| WELL NO. <b>EW-30</b>                          | 0.57  | 0.24 | 10.97 | 10.82 | 11.71 | 9.65 | 11.89 | 9.29 | 11.83 | 9.94  | 8.04  | 9.28  | 104.23                           |
| WELL NO. <b>EW-31</b>                          | 1.73  | 7.88 | 12.80 | 9.20  | 7.88  | 8.62 | 8.75  | 6.44 | 8.54  | 7.72  | 8.17  | 9.86  | 97.59                            |
| TOTAL  |       |      |       |       |       |      |       |      |       |       |       |       | GRAND TOTAL                      |
| MAXIMUM  |       |      |       |       |       |      |       |      |       |       |       |       |                                  |
| MINIMUM  |       |      |       |       |       |      |       |      |       |       |       |       |                                  |
| DAYS IN OPERATION                              |       |      |       |       |       |      |       |      |       |       |       |       | TOTAL OPERATION DAYS             |

SEE NEXT PAGE

| SURFACE WATER (in Units of Millions of Gallons) |      |      |       |       |     |      |      |      |       |      |      |      |                      |
|---|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------------|
| SOURCE  | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR       |
| INTAKE  |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE  |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE  |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE  |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE  |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| TOTAL   |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL          |
| MAXIMUM   |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| MINIMUM   |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| DAYS IN OPERATION                               |      |      |       |       |     |      |      |      |       |      |      |      | TOTAL OPERATION DAYS |

Are surface water and ground water withdrawal amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported withdrawal amounts determined? (Attach separate sheet, if necessary)

| RETURN FLOW (in Units of Millions of Gallons) |      |      |       |       |     |      |      |      |       |      |      |      |                |
|---|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------|
| SOURCE  | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR |
| FLOW  |      |      |       |       |     |      |      |      |       |      |      |      |                |
| FLOW  |      |      |       |       |     |      |      |      |       |      |      |      |                |
| TOTAL   |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL    |

Are return flow amounts based on metered readings? ☐ yes ☐ no (circle one) If "no," how were the reported return flow amounts determined? (Attach separate sheet, if necessary)

NOTE: Is the information originally supplied on your registration form still correct? ☒ yes ☐ no (circle one)

If "no," please attach a separate sheet indicating the nature of the change. If needed, a new registration form will be forwarded to you so that you may provide this office with the necessary revisions.

Owner or authorized representative's signature

*[Signature]*

Date

2/22/06



NOTE: This page may be photocopied if additional space is required. Please be sure to sign and date each copy.

### WITHDRAWALS

GROUND WATER (in Units of Millions of Gallons)

Registration Number **01573**

| SOURCE                   | JAN.         | FEB.         | MARCH        | APRIL        | MAY          | JUNE         | JULY         | AUG.         | SEPT.        | OCT.         | NOV.         | DEC.         | TOTAL PER YEAR                      |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|
| WELL NO. <b>FW-32</b>    | <b>1.15</b>  | <b>5.41</b>  | <b>8.58</b>  | <b>7.62</b>  | <b>7.87</b>  | <b>8.15</b>  | <b>8.63</b>  | <b>6.06</b>  | <b>8.56</b>  | <b>7.05</b>  | <b>7.50</b>  | <b>8.39</b>  | <b>84.97</b>                        |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| WELL NO.                 |              |              |              |              |              |              |              |              |              |              |              |              |                                     |
| <b>TOTAL</b>             | <b>36.19</b> | <b>28.43</b> | <b>91.77</b> | <b>88.15</b> | <b>91.12</b> | <b>81.81</b> | <b>94.68</b> | <b>60.82</b> | <b>85.79</b> | <b>78.97</b> | <b>79.84</b> | <b>93.03</b> | <b>GRAND TOTAL<br/>910.60</b>       |
| <b>MAXIMUM</b>           | <b>11.67</b> | <b>7.88</b>  | <b>12.80</b> | <b>10.82</b> | <b>11.71</b> | <b>9.82</b>  | <b>11.89</b> | <b>9.59</b>  | <b>12.20</b> | <b>11.17</b> | <b>11.21</b> | <b>14.24</b> |                                     |
| <b>MINIMUM</b>           | <b>0.49</b>  | <b>0</b>     | <b>0.56</b>  | <b>0.07</b>  | <b>3.33</b>  | <b>0</b>     | <b>2.98</b>  | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     |                                     |
| <b>DAYS IN OPERATION</b> | <b>31</b>    | <b>28</b>    | <b>31</b>    | <b>30</b>    | <b>31</b>    | <b>30</b>    | <b>31</b>    | <b>31</b>    | <b>30</b>    | <b>31</b>    | <b>30</b>    | <b>31</b>    | <b>TOTAL OPERATION DAYS<br/>365</b> |

SURFACE WATER (in Units of Millions of Gallons)

| SOURCE                   | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR              |
|--------------------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|-----------------------------|
| INTAKE                   |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| INTAKE                   |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| INTAKE                   |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| INTAKE                   |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| INTAKE                   |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| <b>TOTAL</b>             |      |      |       |       |     |      |      |      |       |      |      |      | <b>GRAND TOTAL</b>          |
| <b>MAXIMUM</b>           |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| <b>MINIMUM</b>           |      |      |       |       |     |      |      |      |       |      |      |      |                             |
| <b>DAYS IN OPERATION</b> |      |      |       |       |     |      |      |      |       |      |      |      | <b>TOTAL OPERATION DAYS</b> |

Are surface water and ground water withdrawal amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported withdrawal amounts determined? (Attach separate sheet, if necessary)

RETURN FLOW (in Units of Millions of Gallons)

| SOURCE       | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR     |
|--------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|--------------------|
| FLOW         |      |      |       |       |     |      |      |      |       |      |      |      |                    |
| FLOW         |      |      |       |       |     |      |      |      |       |      |      |      |                    |
| <b>TOTAL</b> |      |      |       |       |     |      |      |      |       |      |      |      | <b>GRAND TOTAL</b> |

Are return flow amounts based on metered readings? ☐ yes ☐ no (circle one) If "no," how were the reported return flow amounts determined? (Attach separate sheet, if necessary)

NOTE: Is the information originally supplied on your registration form still correct? ☒ yes ☐ no (circle one)

If "no," please attach a separate sheet indicating the nature of the change. If needed, a new registration form will be forwarded to you so that you may provide this office with the necessary revisions.

Owner or authorized representative's signature

Date

2/22/06



NOTE: This page may be photocopied if additional space is required. Please be sure to sign and date each copy.

### WITHDRAWALS

GROUND WATER (in Units of Millions of Gallons)

Registration Number **01573**

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY   | JUNE  | JULY  | AUG.  | SEPT. | OCT.  | NOV.  | DEC.  | TOTAL PER YEAR              |
|-------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------------|
| WELL NO. EW-26    | 0    | 0    | 2.49  | 11.39 | 12.37 | 10.21 | 11.89 | 9.50  | 12.80 | 7.50  | 0     | 0     | 78.15                       |
| WELL NO. EW-27    | 0    | 0    | 10.57 | 14.02 | 15.03 | 13.33 | 15.85 | 12.61 | 16.86 | 15.31 | 15.85 | 19.66 | 149.09                      |
| WELL NO. EW-28    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                           |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| WELL NO.          |      |      |       |       |       |       |       |       |       |       |       |       |                             |
| TOTAL             | 0    | 0    | 13.06 | 25.41 | 27.40 | 23.54 | 27.74 | 22.11 | 29.66 | 22.81 | 15.85 | 19.66 | GRAND TOTAL<br>227.24       |
| MAXIMUM           | 0    | 0    | 10.57 | 14.02 | 15.03 | 13.33 | 15.85 | 12.61 | 16.86 | 15.31 | 15.85 | 19.66 |                             |
| MINIMUM           | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                             |
| DAYS IN OPERATION | 0    | 0    | 31    | 30    | 31    | 30    | 31    | 31    | 30    | 31    | 30    | 31    | TOTAL OPERATION DAYS<br>306 |

SURFACE WATER (in Units of Millions of Gallons)

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR       |
|-------------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------------|
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| TOTAL             |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL          |
| MAXIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| MINIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| DAYS IN OPERATION |      |      |       |       |     |      |      |      |       |      |      |      | TOTAL OPERATION DAYS |

Are surface water and ground water withdrawal amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported withdrawal amounts determined? (Attach separate sheet, if necessary)

RETURN FLOW (in Units of Millions of Gallons)

| SOURCE | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR |
|--------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------|
| FLOW   |      |      |       |       |     |      |      |      |       |      |      |      |                |
| FLOW   |      |      |       |       |     |      |      |      |       |      |      |      |                |
| TOTAL  |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL    |

Are return flow amounts based on metered readings? ☐ yes ☐ no (circle one) If "no," how were the reported return flow amounts determined? (Attach separate sheet, if necessary)

NOTE: Is the information originally supplied on your registration form still correct? ☒ yes ☐ no (circle one)

If "no," please attach a separate sheet indicating the nature of the change. If needed, a new registration form will be forwarded to you so that you may provide this office with the necessary revisions.

Owner or authorized representative's signature

*[Handwritten Signature]*

Date

2/22/06



## WITHDRAWALS

GROUND WATER (in Units of Millions of Gallons)

Registration Number 01573

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR            |
|-------------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|---------------------------|
| WELL NO. PW-3     | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. EW-13    | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. EW-14    | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. EW-15    | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. EW-16    | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. EW-17    | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. EW-21    | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO. RW-S     | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0                         |
| WELL NO.          |      |      |       |       |     |      |      |      |       |      |      |      |                           |
| WELL NO.          |      |      |       |       |     |      |      |      |       |      |      |      |                           |
| WELL NO.          |      |      |       |       |     |      |      |      |       |      |      |      |                           |
| TOTAL             | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | GRAND TOTAL<br>0          |
| MAXIMUM           | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    |                           |
| MINIMUM           | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    |                           |
| DAYS IN OPERATION | 0    | 0    | 0     | 0     | 0   | 0    | 0    | 0    | 0     | 0    | 0    | 0    | TOTAL OPERATION DAYS<br>0 |

SURFACE WATER (in Units of Millions of Gallons)

| SOURCE            | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR       |
|-------------------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------------|
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| INTAKE            |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| TOTAL             |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL          |
| MAXIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| MINIMUM           |      |      |       |       |     |      |      |      |       |      |      |      |                      |
| DAYS IN OPERATION |      |      |       |       |     |      |      |      |       |      |      |      | TOTAL OPERATION DAYS |

Are surface water and ground water withdrawal amounts based on metered readings? ☒ yes ☐ no (circle one) If "no," how were the reported withdrawal amounts determined? (Attach separate sheet, if necessary)

RETURN FLOW (in Units of Millions of Gallons)

| SOURCE | JAN. | FEB. | MARCH | APRIL | MAY | JUNE | JULY | AUG. | SEPT. | OCT. | NOV. | DEC. | TOTAL PER YEAR |
|--------|------|------|-------|-------|-----|------|------|------|-------|------|------|------|----------------|
| FLOW   |      |      |       |       |     |      |      |      |       |      |      |      |                |
| FLOW   |      |      |       |       |     |      |      |      |       |      |      |      |                |
| TOTAL  |      |      |       |       |     |      |      |      |       |      |      |      | GRAND TOTAL    |

Are return flow amounts based on metered readings? ☐ yes ☐ no (circle one) If "no," how were the reported return flow amounts determined? (Attach separate sheet, if necessary)NOTE: Is the information originally supplied on your registration form still correct? ☒ yes ☐ no (circle one)

If "no," please attach a separate sheet indicating the nature of the change. If needed, a new registration form will be forwarded to you so that you may provide this office with the necessary revisions.

Owner or authorized representative's signature

Date 2/22/06

A. Owner's well number 33326 (EW-17a)  
 Well capacity \_\_\_\_\_ GPD or MGD (Circle one)  
 Well log number (or copy of well log) \_\_\_\_\_  
 Well depth 89.4 (ft) Well diameter 16 (in)

AQUIFER UTILIZED (Check one)

- |   |   |
|---|---|
| <input type="checkbox"/> Sand                       | <input type="checkbox"/> Shale (Sh)             |
| <input type="checkbox"/> Sandstone (SS)             | <input type="checkbox"/> Interbedded SS, LS, Sh |
| <input checked="" type="checkbox"/> Sand and gravel | <input type="checkbox"/> Underground mine       |
| <input type="checkbox"/> Limestone (LS) /Dolomite   | <input type="checkbox"/> Other _____            |

LOCATION OF WELL

County Hamilton  
 Township Crosby Section 6  
 Nearest City or Town Fernald  
 Provide written description of well location.

**N 477882.011 E 1348799.697 (NAO 1983)**

A. Owner's intake number \_\_\_\_\_  
 Intake capacity \_\_\_\_\_ GPD or MGD (Circle one)  
 Name of body of water \_\_\_\_\_

SOURCE UTILIZED (Check one)

- |   |
|---|
| <input type="checkbox"/> River, stream, or drainage ditch |
| <input type="checkbox"/> Lake, pond, quarry, or reservoir |
| <input type="checkbox"/> Other _____                      |

LOCATION OF INTAKE

County \_\_\_\_\_  
 Township \_\_\_\_\_ Section \_\_\_\_\_  
 Nearest City or Town \_\_\_\_\_  
 Provide written description of intake location.

B. Owner's well number 33298 (EW-21a)  
 Well capacity \_\_\_\_\_ GPD or MGD (Circle one)  
 Well log number (or copy of well log) \_\_\_\_\_  
 Well depth 102.75 (ft) Well diameter 16 (in)

AQUIFER UTILIZED (Check one)

- |   |   |
|---|---|
| <input type="checkbox"/> Sand                       | <input type="checkbox"/> Shale (Sh)             |
| <input type="checkbox"/> Sandstone (SS)             | <input type="checkbox"/> Interbedded SS, LS, Sh |
| <input checked="" type="checkbox"/> Sand and gravel | <input type="checkbox"/> Underground mine       |
| <input type="checkbox"/> Limestone (LS) /Dolomite   | <input type="checkbox"/> Other _____            |

LOCATION OF WELL

County Hamilton  
 Township Crosby Section 6  
 Nearest City or Town Fernald  
 Provide written description of well location.

**N 477954.366 E 1349550.588 (NAO 1983)**

B. Owner's intake number \_\_\_\_\_  
 Intake capacity \_\_\_\_\_ GPD or MGD (Circle one)  
 Name of body of water \_\_\_\_\_

SOURCE UTILIZED (Check one)

- |   |
|---|
| <input type="checkbox"/> River, stream, or drainage ditch |
| <input type="checkbox"/> Lake, pond, quarry, or reservoir |
| <input type="checkbox"/> Other _____                      |

LOCATION OF INTAKE

County \_\_\_\_\_  
 Township \_\_\_\_\_ Section \_\_\_\_\_  
 Nearest City or Town \_\_\_\_\_  
 Provide written description of intake location.

C. Owner's well number \_\_\_\_\_  
 Well capacity \_\_\_\_\_ GPD or MGD (Circle one)  
 Well log number (or copy of well log) \_\_\_\_\_  
 Well depth \_\_\_\_\_ (ft) Well diameter \_\_\_\_\_ (in)

AQUIFER UTILIZED (Check one)

- |   |   |
|---|---|
| <input type="checkbox"/> Sand                     | <input type="checkbox"/> Shale (Sh)             |
| <input type="checkbox"/> Sandstone (SS)           | <input type="checkbox"/> Interbedded SS, LS, Sh |
| <input type="checkbox"/> Sand and gravel          | <input type="checkbox"/> Underground mine       |
| <input type="checkbox"/> Limestone (LS) /Dolomite | <input type="checkbox"/> Other _____            |

LOCATION OF WELL

County \_\_\_\_\_  
 Township \_\_\_\_\_ Section \_\_\_\_\_  
 Nearest City or Town \_\_\_\_\_  
 Provide written description of well location.

(Note: Use additional sheets if necessary)

C. Owner's intake number \_\_\_\_\_  
 Intake capacity \_\_\_\_\_ GPD or MGD (Circle one)  
 Name of body of water \_\_\_\_\_

SOURCE UTILIZED (Check one)

- |   |
|---|
| <input type="checkbox"/> River, stream, or drainage ditch |
| <input type="checkbox"/> Lake, pond, quarry, or reservoir |
| <input type="checkbox"/> Other _____                      |

LOCATION OF INTAKE

County \_\_\_\_\_  
 Township \_\_\_\_\_ Section \_\_\_\_\_  
 Nearest City or Town \_\_\_\_\_  
 Provide written description of intake location.

(Note: Use additional sheets if necessary)



## ATTACHMENT B

| EXTRACTION WELL 33326 (EW-17a)<br>WELL COMPLETION LOG  |  |
|--|--|
| Contractor: Moody's  | Date Completed: 08/16/2005   |
| Location:  | NAD 1983 Coordinates:  |
| East of Storm Sewer Outfall Ditch  | N 477882.011      E 1348799.697  |
| Installation Details:<br><br>Drilling Method: Cable Tool<br>Borehole Diameter: 24 inches<br>Total Depth of Well: 89.4 feet bgs<br>Completion Method: Filter Pack |  |
| Casing:<br><br>304 stainless steel casing<br>16-inch diameter  | Screen:<br><br>25 feet long<br>304 stainless steel<br>Continuous wire wrapped<br>16-inch diameter<br><br>Screen slot size:<br>0.070 inch |
| General Lithology :<br><br>0' - 19' bgs., glacial overburden<br>19' - 89.4' bgs., sand and gravel  |  |

## ATTACHMENT B

| EXTRACTION WELL 33298 (EW-21a)<br>WELL COMPLETION LOG   |   |
|---|---|
| Contractor: Moody's   | Date Completed: 03/25/2003  |
| Location:   | NAD 1983 Coordinates:   |
| East of Storm Sewer Outfall Ditch   | N 477954.366      E 1349550.588   |
| Installation Details:   |   |
| Drilling Method: Cable Tool<br>Borehole Diameter: 24 inches<br>Total Depth of Well: 102.75 feet bgs<br>Completion Method: Filter Pack |   |
| Casing:   | Screen:   |
| 304 stainless steel casing<br>16-inch diameter  | 35 feet long<br>304 stainless steel<br>Continuous wire wrapped<br>16-inch diameter<br><br>Screen slot size:<br>0.050 inch |
| General Lithology :   |   |
| 0' - 22' bgs., glacial overburden<br>22' - 102.75' bgs., sand and gravel  |   |